Submit all problems according to the choices given. Mark your choice clearly with 3 designators: Problem number and part as appearing in the assignment, and then the problem number in the book. Explain and justify *thoroughly* each step, using complete sentences. Write neatly, and staple your paper before submission.

1) Section 7.5 (all plots in this section should be qualitative hand-made sketches, as we did in class) -
   a) One of 3, 4.
   b) One of 2, 6.
   c) One of 15, 16.

2) Section 7.6 (all plots in this section should be qualitative hand-made sketches, as we did in class) -
   a) One of 3, 6.
   b) One of 4, 5, 10.
   c) 13 (part c) - just explain in words what the phase portrait is), 28a,b,d.

3) Section 7.8 -
   a) One of 1, 2, 3, 4.
   b) One of 7, 8, 9, 10.

4) Section 7.4 -
   a) 4.

5) Section 7.7 -
   a) 3, 11.